



IFW/S

Docket No.: HE B032
Date: November 30, 2004

In re application of: Eric F. Bryan

Serial No.: 10/815,858

Filed: April 2, 2004

Pub. No.: US 2004/0194327 A1

Pub. Date: October 7, 2004

For: SENSING STEERING AXIS INCLINATION AND CAMBER WITH AN ACCELEROMETER

Commissioner for Patents
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- Third-Party Submission In Published Application Under 37 CFR 1.99(a)
- A check in the amount of \$180.00.

The Commissioner is hereby authorized to charge any additional fees or credit overpayment under 37 CFR 1.16 and 1.17, which may be required by this paper to Deposit Account 162201. *Duplicate copies of this sheet are enclosed.*

Mark E. Books
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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS:	Bryan, Eric F.
SERIAL NO.:	10/815,858
PUB. NO.:	US 2004/0194327 A1
PUB. DATE:	October 7, 2004
EXAMINER:	GUADALUPE, YARITZA
Art Unit:	2859
FILED:	April 2, 2004
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Commissioner of Patents
P.O. Box 1450
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November 30, 2004
St. Louis, Missouri
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THIRD-PARTY SUBMISSION
IN PUBLISHED APPLICATION
UNDER 37 CFR 1.99(a)

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(Duplicate Copy Served To Applicant's Correspondence Address)

Sir:

The following information is submitted as relevant to the examination of the above-identified U.S. Patent Application published as U.S. Patent Application Publication No. US 2004/0194327 A1 on October 7, 2004. This submission is submitted within two months of the publication date of the application per 37 CFR 1.99(e), and is accompanied by the fee set forth in 37 CFR 1.17(p), as required by 37 CFR 1.99(b)(1). A duplicate copy of this submission has been served to the applicants' Correspondence Address listed on the face of the U.S.

Patent Application Publication, as required by 37 CFR 1.99(c).

12/06/2004 DEMMANU1 00000032 10815858

RELEVANT INFORMATION:

1. "Convection-based Accelerometer and Tilt Sensor Implemented in Standard CMOS", *Milanovi et al.*, Intl. Mechanical Eng. Conf. and Expo., MEMS Symposia, Anaheim, CA , Nov. 18, 1998, (4 Pages).
2. U.S. Patent No. 6,171,880 B1 to *Gaitan et al.*, for "Method of Manufacture of Convective Accelerometers", issued on January 9, 2001.
3. "A Micromachined Thermal Accelerometer for Motion, Inclination, and Vibration Measurement", *Bugnacki et al.*, Sensors – June 2001, (11 Pages).
4. "Innovation in MEMS: Full Integration of Micro-machined Motion sensors with no Moving Parts", *Bugnacki et al.*, Dedicated Systems Magazine, 2001 Q4 pages 6-12 (7 Pages).
5. "A Dual-Axis Tilt Sensor Based on Micromachined Accelerometers", *Horton et al.*, Sensors – April 1996, pages 91-94 (4 Pages).
6. Analog Devices Press Release "Multi-Purpose Accelerometer Measures Low g Forces with 0.005g Resolution [ADXL05]", Norwood, MA, May 1, 1995, 2 pages.
7. Crossbow Technology, Inc., San Jose, CA - Domestic Price List and Product Literature for "CXTILT02Dual Axis Digital Tilt Sensor" and "CXL04M3 Triaxial Accelerometer", dated May 6, 1996 (8 pages).
8. Affidavit of Mr. John Crawford of Crossbow Technology, Inc. attesting to associated correspondence between Mr. Nick Colarelli of Hunter Engineering Co. and Mr. John Crawford dated August 1996 regarding the use of Crossbow Technology, Inc.'s MEMS dual-axis tilt sensor in Hunter Engineering Wheel Alignment Angle Sensors and associated correspondence between Mr. Michael T. Stieff of Hunter Engineering Co. and Mr. John Crawford dated January 6, 1997 (unsigned), Affidavit ~~-13-~~ pages, associated correspondence – 5 pages (best available copies).

Respectfully submitted,

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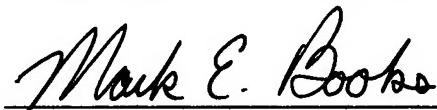
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and that in compliance with 37 CFR 1.99(c) and 37 CFR 1.248(a)(4), a second copy of this correspondence and all attachments is being deposited with the U.S. Postal Service on **NOVEMBER 30, 2004** as first class mail in an envelope addressed to:

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11/30/04
Date of Signature